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ABSTRACT

This paper discusses Cuesta College's (California) technology plan, outlining the principles, goals, and strategies that support the college's ultimate goals of keeping curricula current, increasing student success, and providing learning options. The college's goals/principles and sub-goals are listed, and include: (1) promoting a campus climate receptive to new technologies; (2) soliciting community needs and attempting to meet them; (3) increasing the use of technology to improve the efficiency and effectiveness of instruction; (4) providing technical links for the effective delivery of information, instruction, and other services to students, faculty, and staff; (5) implementing technology to improve the efficiency of services to students; (6) establishing interconnectivity on campus as well as connections to the community and other institutions; (7) facilitating the use of internal resources to support the appropriate use of technology; and (8) developing relationships with external sources of support for Cuesta's technology mission. Tables illustrating the implementation plan describe access to information on and off campus, including Internet access for students and faculty/support staff, student computer labs, library Internet access, file servers and Internet management tools, video conferencing, presentation equipment available in classrooms, degree and certification programs, multi-media notebook computers, and equipment for hands-on training. (AS)

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ED 428 811

Technology Vision and Implementation

Cuesta College

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Cuesta College Technology Vision and Implementation

May 15, 1998

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Introduction

Technology is a tool. The goal of Cuesta College is to use technology to teach curricula that teach technology or its use, to increase support for student success, and increase teaching and learning options. The foundation pieces that make up "technology" are hardware, software and infrastructure. The college has developed plans that approach this goal from two directions that support each other. One is the Technology Plan that outlines the principles, goals and strategies that support our ultimate goals of keeping curricula current, increasing student success, and providing learning options. The other plan is the implementation of the foundation pieces, hardware, software and infrastructure. As you read this document, you will see how the foundation pieces support the Technology Plan principles.

The Technology Committee at Cuesta College has developed a Technology Plan that consists of Principles, Goals and Strategies. These principles should be broad enough to accommodate changes in technology. However, the Goals and Strategies will have to change over time to accommodate technology advancements.

In addition, a Technology Implementation Plan has been developed. This plan outlines the foundation pieces that are needed. A budgetary dollar figure has been given to each item. As money becomes available, current technologies will be investigated and costs estimated. Of course, not all dollars will be available all at once. To help plan the implementation as money becomes available, a phase has been assigned to each item. In some cases, one item must proceed another (i.e. infrastructure before Internet access). These phases are meant to be guidelines and will have to be reviewed as money becomes available.

As with everything that deals with technology, these plans are subject to change. The guiding principles should not change, but the strategies and implementations will change as new technology become available and current technologies quality increases and/or prices drop.

Technology Plan Introduction

The college Technology Committee has been working on a campus technology plan for the past two years. It is still in draft form with only a few areas in need of work. The following people have been involved in its development:

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Gyla Amyx	Art Instructor
Joe Asire	Chemistry Instructor
Dave Dowell	Director Learning Resources
Leanne Fiorentino	Secretary Disabled Student Services
Dick Fisher	Physics Instructor
Robert Hartwig	Communications Instructor
Janice House	Director Computer Services
Greg Lewis	Math Instructor
Diane Lichty	Office Technology Instructor
Keith Lilley	Librarian
Pete Lagomarsino	Construction Technology Instructor
Mary McCorkle	Journalism Instructor
Sandee McLaughlin	Dean Student Services
Ed Pearce	Dean Comm Ed/Rec and Public Events
Pete Pedroni	Director Physical Plant
Lori Pomi	Community Recreation
Tony Rector-Cavagnaro	Language Arts Instructor
George Rumore	Division Chair Business Education
Gil Stork	VP Student Services
Ralph Sutter	Foreign Language Instructor
Glenn Wiegand	KGUR Instructor/Advisor
Emery Wong	Director Bookstore
Kathryn Zipperian	English/Technical Writing Instructor

Cuesta College Technology Plan Final Draft - Spring 1998

PRINCIPLE 1: Cuesta College will commit appropriate financial, human and facilities resources; establish effective administrative, planning and governance structures and processes; and promote a campus climate receptive to new technologies.

Goal 1.1: Establish objectives and timelines for implementation of this plan and monitor progress toward the goals.

Strategy Use information collected through the college planning process and Continuous Quality Improvement activities in conjunction with committee expertise.

Goal 1.2: Establish the use of appropriate and productive technology as a high priority and promote the concept that an investment in technology is an investment in the future.

Strategy Include Technology as a goal in the College Plan. Highlight technology in the Capital Campaign for Cuesta "Investing in the Future".

Goal 1.3: Assign responsibility for providing technological leadership and coordinating implementation of this plan; support it with appropriate budget, staff, and space.

Strategy Leader is/will be provided by the Director of Computer Services and the Director of Learning Resources.

Goal 1.4: Create new and/or reorganize existing College offices, classrooms, labs, and procedures to insure they are current and facilitate effective delivery of technology services to students, faculty, staff, and administration.

Strategy Implement recommendations made by existing campus CQI teams. These teams are: Faculty Support, Technology Support and Institutional Training.

Create new committees and CQI teams when appropriate to address this.

Goal 1.5: Work within existing planning and budgeting structures and processes to ensure that technology is given high priority, that costs and benefits are fully integrated, and that technological issues receive due consideration in the allocation of annual and long term College resources.

Strategy Assign College Plan Goals and Activities to cabinet members for follow-up on college progress toward goals.

Encourage Units to incorporate technology pieces in their Unit Planning process.

Continue Technology Plan update presentations to Planning and Budget committee.

Goal 1.6: Provide appropriate technological tools for the collection, analysis, and presentation of information, and facilitate the use of such information in college decision-making processes by administration, individual faculty and staff, and their recognized organizations.

Strategy Determine the types of information needed from administration, individual faculty and staff, and their recognized organizations.

Compile the information needed.

Make the raw data and conclusions available through various media to administration, individual faculty and staff, and their recognized organizations.

Goal 1.7: Promote effective communication about technological issues and implementation of this plan to the campus community.

StrategyShare DRAFT "finalized" Technology Plan - have copies provided for feedback.

Keep Planning and Budget Committee in the "information loop" regarding modifications to the plan.

Inform Administrators, Directors, and Division Chairs of the plan and its impact.

Utilize the Communicator to regularly update the college community on topics related to the applications of technology in an educational setting.

Use Flex day activities to communicate the plan and implications for instruction services.

Post this plan and other appropriate information on the Technology Committee Web Site.

Goal 1.8: Promote a culture sensitive to the social, psychological and economic impact of technology and technological change on the campus community.

Strategy Reinforce the committee's role to provide faculty/staff with the means to deliver instruction and services through providing new technologies and building rewards for the effort.

Invite free and open discourse from Administration, Division Chairs, Academic Senate, and Faculty and Classified Unions about this plan.

Goal 1.9: Provide a balance between technology-based innovation and traditional forms of delivering instruction and services.

StrategyEncourage and promote successful efforts whether or not they are technology-based.

PRINCIPLE 2: Cuesta College will continue to solicit community needs and attempt to meet these identified needs.

Goal 2.1:Cuesta College will identify academic and career programs in technology that meet current and future needs of the community and industry.

StrategyIdentify programs that teach technology or the use of technology.

Evaluate the strength and effectiveness of these programs.

Ensure that these programs have resources necessary to maintain effectiveness.

Goal 2.2: Cuesta College will develop new career programs in technology to meet the current and future needs of the community and industry.

Strategy Develop strong industry-based advisory committees to guide the development of these programs.

Create partnerships with local high schools to prepare students for entry into these programs.

Prepare highly trained graduates who are ready to meet the needs of employers in the 21st century.

Continue to conduct the Community Needs Assessment Survey and incorporate results into our programs.

PRINCIPLE 3: Cuesta College will increase the use of appropriate technology to improve the efficiency and effectiveness of instruction.

NOTE: Use of technology in the classroom is instruction driven. The Technology Committee's role is to provide a structure

which enables motivated faculty to produce and deliver instruction through the use of technology.Goal 3.1: Develop a simple process for easily integrating computers and other technologies into the curriculum.

Strategy: Streamline the curriculum development process to allow easy infusion of technology into existing curriculum.

Support and promote innovation, and technology-based approaches in the formulation of new curriculum.

Provide technology tools and development time to faculty willing to experiment with the infusion of new technology in their curriculum.

Develop a computer loan program for faculty to take computers home for he above mentioned development.

Goal 3.2: Encourage the use of appropriate academic technology.

Strategy Continue institutional commitment to advance technology on campus. Building on the a campus-wide flex days devoted to classroom technology.

Develop a system of incentives, rewards and institution-wide recognition for successful infusion of technology into teaching.

Have the tools and training on those tools easily available to faculty.

Provide appropriate training to faculty.

Provide equipment for hands-on training.

Remove obstacles that hinder innovation .

Provide a forum for discussing the effectiveness of projects which are based on the use of technology.

Utilize existing committee structure:

A. Faculty members of Technology Committee, or

B. Committee of Academic Senate to receive and review proposals to allocate funds for equipment for faculty workstations.

Provide learning opportunities and mentoring relations to share faculty expertise with colleagues (flex activities, etc.).

Take advantage of opportunity to plan for the new Learning Center to include:

A. Facilities for faculty to become familiar with new hardware and software

B. New courseware for student instruction.

C. Offices and workstations and staff to advise and collaborate with faculty in production of courseware.

Goal 3.3: Use measurable evidence of student success to determine the effectiveness of technology-based instruction.

Strategy Provide faculty with access to institutional data such as, grade distribution, retention, success in sequential courses, and transfer rates for self-evaluation.

Commit institutional resources to evaluate all aspects of technology-based instruction using reliable verification techniques.

Build into program review process mechanisms for ensuring that students learn effectively when technology-based instruction is used.

Goal 3.4: Expand student learning opportunities through flexible, innovative delivery systems.

Strategy Promote changes in regulations which limit non-traditional forms of instruction.

Support faculty in the development of alternative modes of education such as open-entry / open-exit courses; distance learning; computer-assisted learning; multimedia teaching tools.

Provide flexibility in the offering, scheduling and enrollment-limits of "alternative style" courses.

Provide means and support for delivery and reception of instructional courseware.

Create open computer labs in which students have access to all instructional software used in the college. These labs are open to match the students needs and are staffed with "TA's" who can facilitate use of the technology.

Goal 3.5: Develop ability to deliver classes to remote locations in San Luis Obispo County through the use of distance learning technologies and develop the ability to deliver adaptive technology instruction and support in those remote locations.

Strategy Provide the technology and training to faculty to produce distance learning courses.

Identify courses that lend themselves to an Internet / WWW implementation.

Provide incentives to instructors to create curriculum for these new modes of delivery.

Pursue opportunities offered by the digital wireless consortium, the Community Media Task Force (Falcon and Sonic cable providers) .

PRINCIPLE 4: Cuesta College will provide appropriate technical links for the effective delivery of information, instruction, and other services to students, faculty, and staff.

Goal 4.1: Provide access to appropriate computer and other technology delivery systems and campus network services.

Strategy:Install infrastructure on campus to create the campus LAN. The technology includes fiber optic cable between buildings and category 5 UTP cable inside the buildings.

Provide an on-going budget item to install/upgrade current technology computers in campus faculty, administration and staff offices.

Develop and implement a Campus Technology Migration plan to efficiently use equipment on campus.

Upgrade/install campus LAN servers and Internet Management tools to efficiently process traffic.

Goal 4.2: Provide access to e-mail and Internet services for faculty and staff.

Strategy: Provide training for faculty and staff on new Internet and e-mail software.

Provide workshops on effective use of information on the Internet.

Expand use of campus WWW to disseminate campus information

Develop Internet-based courses.

Goal 4.3: Provide appropriate home access to campus network services.

Strategy: Provide a checkout system for notebook computers with appropriate software for each division.

Expand and maintain Cuesta Web site for campus information access.

Goal 4.4: Provide access to instructional and reference materials, information, and other services.Strategy: Connect existing classroom servers to campus LAN.Provide an on-going budget item to install/upgrade current technology computers in classrooms. Study needs to be conducted.

Install at least one classroom in each division with multi-media projection systems and provide at least one

portable multi-media projection system per division.

PRINCIPLE 5: Cuesta College will identify and implement technology to improve the efficiency and effectiveness of services to students .

Goal 5.1: Formulate and implement a plan to provide students, faculty, and staff with electronic access to appropriate student services and student-related information from multiple locations both on and off campus.

Strategy Identify and prioritize the information that would benefit the students most if it was available 24 hours a day / 7 days a week.

Identify and prioritize the information that would benefit the faculty most if it was available 24 hours a day / 7 days a week.

Identify and prioritize the information that would benefit the staff most if it was available 24 hours a day / 7 days a week.

Design and implement a campus kiosk system via the WWW. The information is then both accessible from campus and home.

Provide an automated walk-in assessment center.

Provide a walk-in computer lab for students.

Goal 5.2: Produce information about college programs, rules, procedures, and resources in forms suited to electronic distribution, coordinate its timely delivery to students, faculty, and staff through multiple printed and electronic media.

Strategy Develop a simplified and familiar process that communicates information consistent within any medium for student use and access to support services.

Review student services administrative information needs and look for alternative communication solutions.

Goal 5.3: Facilitate the articulation of Cuesta 's programs and services with those of K-12 and four-year institutions through the collaborative use of technology.

Strategy Review technology implemented at the K-12 level and four-year institutions.

Develop a system to coordinate the collaborative use of technology.

PRINCIPLE 6: Cuesta College will implement standards that will establish interconnectivity on campus as well as connections to the community and other institutions. The College also will support an interdisciplinary program and will ensure the ongoing quality, integrity, reliability, and consistency of technology services for the Cuesta campus community as well as protect individual privacy.

Goal 6.1: Provide access to information, security of data, and protection of individual privacy.

Strategy Develop a process to determine who gets access to what technology.

Educate users on the appropriate use and dissemination of data.

Develop policies that outline protection of data (passwords and backup), privacy of data and ownership of data.

Create and use an access password system based on user access need to the data.

Develop policies governing personal use of college-owned technology.

Goal 6.2: Support the acquisition, support and maintenance of equipment and software.

Strategy Establish a technology standard that will be reviewed at least on a regular and appropriate basis.

Establish a process to evaluate technological solution implications and costs which include capital infrastructure, installation, training and repair.

Develop standards for software procurement.

Establish timetables for the replacement of equipment and software.

Develop a Technology Support Plan that outlines the support requirements of campus technology.

Goal 6.3: Facilitate the use of technology training services.

Strategy Setup in-house training sessions tailored to the user's needs.

Identify viable options for off campus sources of these services.

Attend conferences on current and future technology .

Goal 6.4: Maintain a reliable and robust telecommunication infrastructure. Strategy Allocate appropriate dollars in annual budget to maintain reliability and speed of the campus LAN. Monitor LAN traffic with appropriate tools and anticipate growth/expansion before it becomes critical.

Move applications across platforms when it is appropriate.

Keep informed on technical developments.

Install technology that makes sense for today's needs and leaves the door open for the next generation of technology.

Install appropriate backup technology for mission critical applications.

Goal 6.5: Permit the accurate and timely delivery of appropriate reports.

Strategy Identify appropriate data to be delivered.

Allow and encourage users independent access to data.

Implement appropriate delivery options such as Internet, data download, client/server, hardcopy and archiving.

Goal 6.6: Enable the efficient collection of appropriate, accurate college data.

Strategy Implement mandatory student ID card with bar-code or magnetic stripe. This card would be used at strategic data collection points on campus.

Develop/implement software to collect and report the data in a timely and appropriate manner.

Goal 6.7: Stimulate the proper and legal use of intellectual properties of all types including text, graphics, photographs, video and audio.

Strategy Adopt a broad and simple institutional copyright policy.

Develop model employee/employer contracts for assigning profits derived from intellectual property.

Develop model releases for obtaining permission to import intellectual property of others into works created by the institution and its employees.

PRINCIPLE 7: Cuesta College will identify, encourage and facilitate the use of internal resources to support the appropriate use of technology.

Goal 7.1: Identify and encourage the ideas and projects of visionaries and risk-takers.

Strategy Adopt a College copyright policy that provides financial incentives for development of quality instructional materials.

Develop a plan for a management culture supportive of vision and innovation .

Goal 7.2: Identify and remove barriers to innovative use of technology in support of instruction and the curriculum.

Strategy Provide faculty with schedule and teaching flexibility to encourage innovation and experimentation in alternative instructional modes.

Support faculty development of instructional software and supplemental instruction through a system of rewards and incentives.

Develop a budget process flexible enough to provide the human and capital resources necessary for innovation and long-term curriculum reform.

Goal 7.3: Identify and remove barriers to technology innovation in service and support areas.

Strategy Develop a budget process flexible enough to provide the human and capital resources necessary for innovation and long term improvements in the delivery of service and support.

Goal 7.4: Provide an appropriate, comprehensive and ongoing staff development process that addresses the need for beginning through advanced technological skills.

Strategy Link staff development activities more closely to the achievement of "Goals and Activities: 1997-1999; Excellence in Teaching to Improve Student Success" as identified in the 1997-1999 College Plan.

Expand faculty/staff technology training labs.

Develop a high technology classroom lab for faculty experimentation.

PRINCIPLE 8: Cuesta College, through the Foundation, will develop and maintain relationships with external sources of support for its technology mission and goals.

Goal 8.1: Seek and participate in mutually beneficial partnerships with business, public and private agencies and the community at large.

Strategy Familiarize local businesses and community agencies with the current resources available, proposed technology programs, and future needs of Cuesta.

Goal 8.2: Seek external funding through governmental agencies, business sponsorships, and private enterprise sources.

Strategy Enlist Federal, State and local grants.

Implementation Plan Introduction

This plan was developed to attach some tangible goals and budgetary dollar amounts to projects that support the Principles, Goals and Strategies outline in the Technology Plan.

The College has acknowledged that this Technology Plan will not succeed without the appropriate personnel and budget to support the equipment and people. A campus CQI team has been formed to address these personnel needs. The Technology Support CQI team used this implementation plan as the basis for their work.

The Technology committee know that other technology needs that are not computer-based are in campus Unit Plans. These should be considered concurrently with this plan.

How to Read the Grid

Example:

3	Walk-in Assessment Testing	25 workstations, server	With computers available on a walk in basis . . .	$90,000
Implementation Phase Number. Broad categories for implementation (1, 2 or 3)	Short Title describing the project	More detailed description of the project. This could include a list of some of the components	Describes the outcome or benefit to the student.	Estimated cost to be used for budgetary purposes only

List of Principles from the Technology Plan:

Below are the principles reiterated from the Technology Plan. The highlighted words are used in the following grid to help the reader reference the appropriate principle that is supported by the project.

Principle 1: Cuesta College will commit appropriate financial, human and facilities resources; establish effective administrative, planning and governance structures and processes; and promote a campus climate receptive to new technologies.

Principle 2: Cuesta College will continue to solicit community needs and attempt to meet these identified needs.

Principle 3: Cuesta College will increase the use of appropriate technology to improve the efficiency and effectiveness of instruction.

Principle 4: Cuesta College will provide appropriate technical links for the effective delivery of information, instruction, and other services to students, faculty, and staff.

Principle 5: Cuesta College will identify and implement technology to improve the efficiency and effectiveness of services to students.

Principle 6: Cuesta College will implement standards that will establish interconnectivity on campus as well as connections to the community and other institutions. The College also will support an interdisciplinary program and will ensure the ongoing quality, integrity, reliability, and consistency of technology services for the Cuesta campus community at the same time protecting individual privacy.

Principle 7: Cuesta College will identify, encourage and facilitate the use of internal resources to support the appropriate use of technology.

Principle 8: Cuesta College, through the Foundation, will develop and maintain relationships with external sources of support for its technology mission and goals.

Implementation Plan

Access to Information on and off Campus

Phase	Title	Description	Outcome / Benefit	Estimated Cost
1	Campus LAN Infrastructure	Fiber optic cable between buildings; Category 5 UTP cable within buildings; Hubs; Bridges and Routers as required.	This is the foundation of any improvement in our technology situation. This is the cable in the ground and in the walls that will allow the computers on campus to share information and allow access to the Internet.	$500,000 DONE
Status: Done				
2	Internet Access for Faculty	A combination of notebook and desktop computers with local printers or shared workgroup printers.	Very few faculty have computers available to them in their offices. This equipment can be used for development of classroom presentation material. In addition, the equipment can be used for email, word-processing, grade management via spreadsheets, access to the student records system and Internet access.	$73,200
Status: Purchases began in Spring 1997. Equipment is added as money becomes available.				
2	Internet Access from Student Labs	Upgrade existing computers that have the capability to access the Internet with necessary hardware (NIC) and software.	Providing Internet access to as many students as possible addresses two areas; 1) access to all the resources that are available on the Internet for both school and personal growth, and 2) addresses the concern of equity of access for all our students. As Cuesta puts more information on our WWW site, the college must make sure that all students have access.	$0 DONE
Status: All labs that had appropriate equipment are on the campus LAN				

2	Upgrade existing student labs to current technology	Many of the student labs are surviving with old technology computers. Some of these computers could be used elsewhere on campus. Included in this is some special furniture, hardware and software to accommodate students with disabilities.	The computers in the classrooms would support the software that the curriculum requires. The software determines the specification requirements of the hardware. This would allow the college to teach current software applications. This cost estimate includes upgrade of the TV studio.	$370,000
Status: Some labs are done, still more to go.				
3	Student labs for additional disciplines	When appropriate software becomes available for different disciplines, student labs with the software will be installed	New software for a wide variety of educational disciplines is constantly being developed. These applications can either enhance the learning experience with multi-media or customize the learning experience to accommodate different learning styles.	$213,000
Status: As software becomes available and curriculum is developed, more disciplines want to use technology.				
2	Internet Access for all Support Staff	Upgrade existing computers; Replace obsolete computers; Install new computers.	Staff having access to the Internet can improve their ability to serve the students in a number of ways. Currently colleges are sending transcripts electronically and college articulation agreements are available on the Internet. Areas that deal with outside vendors can more efficiently communicate and track college information via the WWW.	$90,000
Status: As our college grows, so does the support staff. Equipment for support staff is needed.				

2	Expand Internet Access from Library	Additional student workstations available in the library and WWW access to library system.	This will increase the number of workstations available to the students in the library. In addition, this will increase the access to our library system. Access will be available from any computer in the world with WWW access 7 days a week, 24 hours a day.	$75,000
Status:				
all	File Servers and Internet Management Tools	Upgrade existing file servers (including the HP3000), Internet management tools, and install new file servers to handle additional traffic and needs.	One of the college goals is to remove barriers to students access of technology. When the classroom computers are networked the software will reside centrally. The result is that from any student computer on campus it will be possible to access any student software on campus.	$187,000
Status: Now that the campus LAN is installed and computers are connected. These projects can be done.				
1	Increase bandwidth of off campus Internet access	Currently we have a 56kbps line to Cal Poly for our Internet access. As more people access the WWW from our campus and from off campus to our WWW site, this bandwidth needs to expand initially to a T1 line.	With more people accessing the Internet from campus and more people accessing our WWW site from off campus, a *bigger pipe* for the data to move through is needed.	$16,000 DONE
Status: The state allocated money to the college to connect to 4Cnet with a T-1 connection..				
all	Off load appropriate applications from the campus mainframe to LAN servers	Once the campus LAN is installed, there is an option of moving applications from the college mainframe to servers. The most appropriate application is email.	This will allow the college to more efficiently manage our hardware usage. Applications can be moved to appropriate size machines. In the long-term, this will save the college costly upgrades to the existing HP3000.	$111,750
Status: Now that the campus LAN is installed and computers are connected. These projects can be done				

Increased Support for Student Success

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Phase	Title	Description	Outcome / Benefit	Estimated Cost
2	Kiosk and WWW Access to Student Records	All the data on the colleges student records system can be accessible via the WWW. Kiosks for student access at multiple sites after hours is also needed.	Students could access much of their student records information from either WWW access on campus (including a Kiosk) or from any computer in the world with WWW access. In addition to student records information, all information on the campus WWW will be available. This is another avenue for instructors to communicate with their students. This would give students access 7 days a week 24 hours a day.	$7,000/unit DONE .
Status: Three kiosks have been installed at Cuesta. Students have access to current class schedule, grades, open class list.				
2	Bar Coded Student Id and Card Readers	A computer and camera with specialized software that prints student Ids with digitized pictures and either bar-coded or magnetic strips that can be read via an electronic reader.	One big user of this would be the automated library system. In addition, the college will be able to quickly and easily gather data on services that the students use on campus. In some areas that could help generate money for the college, in other areas this will help us better know what services the students use and therefore allow the college to make changes to meet the demand.	$1,500 each
Status: Fall 1997 began distributing bar-coded student ids.				
3	Walk-in Assessment testing	25 workstations, server and software that allows students to take assessment tests on a walk-in basis.	With computers available on a walk-in basis, this allows the student to determine when the test will be taken. Currently assessment tests are scheduled. This means that the College determines when the student can take the tests.	$103,000
Status: no work done				

3	Video Conferencing	Video conferencing allows for one-on-one multi-media communication. Not only is voice and picture available, but a shared white board is also available for shared documents.	This technology has the potential to increase our services to the students. Counselors could work one-on-one with students in the local high schools. With the shared *white board* documents such as transcripts could be shared.	$1,600/pair
Status: no work done				

Increased Teaching and Learning Options

Phase	Title	Description	Outcome / Benefit	Estimated Cost
3	Two-way Audio/Visual Distance Learning	Allow origination of courses on campus with live classes and simultaneously serving remote centers with receiving equipment. Two way video and audio.	Give students access to educational opportunities that are currently only available at Cuesta's campus.	$300,000
Status: A room unit was purchased with State funds.				
2	Presentation equipment setup available in classrooms	Allow faculty to use technology as part of their presentation. The setup would include; computer, monitor, sound, projection unit.	Faculty can use alternative instructional media for classroom presentation. These units would support the presentation of multimedia (pictures, voice, sound, text) in a classroom situation. We currently estimate the need for 28 units.	$212,000
Status: Humanities forum installed Fall 1997				
2	Open Access Student Lab	50 workstations connected to the Internet. Included in this is some special furniture, hardware and software to accommodate students with disabilities	Currently there is access at the ASCC lab. This lab has 16 workstations. Since this lab's opening it has been very popular with the students. Either adding more units to this lab or creating a new lab is a need.	2,500/unit
Status: ASCC funded lab installed Fall 1997. Free for ASCC cardholders, fee for non-cardholders				

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2	Robotics Degree / Certificate Program	Provide training for Robotics Technicians; 2 - 3 year program.	Highly skilled technicians will be trained to meet employment needs that are in high demand. Beginning salary industry-wide is $30,000 - $35,000.	$110,000 (Specialized curriculum) $200,000 (broad industry curriculuum)
Status: Curriculum began Fall 1997. Twenty students scheduled to begin 2nd year curriculum Fall 1998				
2	Network Degree / Certificate Program	Provide training for Comuter Systems and Network Specialist. 2 - 3 year program.	Highly skilled technicians will be trained to meet employment needs that are in high demand. Beginning salary industry-wide is $30,000 - $50,000.	$140,000 (Basic Network curriculum) $120,000 (Statie-of-the-art Network curriculuum)
Status: Curriculum began Fall 1997. Twenty students scheduled to begin 2nd year curriculum Fall 1998				
2	Multi-media notebook computers available for faculty to use.	When faculty are working on classroom presentations, it is appropriate that they have similar equipment available to them for this development. Having some notebook computers that are available for them to use will facilitate this need.	Faculty will have more flexibility on when and where they use the new technology for development of curriculum material.	$3,500/unit
Status: Some available via Instructional Technology Services.				
1	Equipment to provide hands-on training for faculty and staff	This would provide for some desktop computers in a employee training area.	When training faculty and staff on technology, the most retention is achieved when the students do the lessons *hands-on*.	$20,000
Status: This equipment will be required when an employee training facility is available.				

Notes:

1. Sources for this document are 1999-2000 Unit Plans.
2. Due to the source of Unit Plans, some items may be double counted (appear in more than one Unit Plan).
3. Due to the recent funding of new buildings on campus (Art and Music expansion, and Learning Resources buildings), some items may not appear in Unit Plans.

File:grid399.doc

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Notes:

1. Sources for this document are 1999-2000 Unit Plans.

2. Due to the source of Unit Plans, some items may be double counted (appear in more than one Unit Plan).
3. Due to the recent funding of new buildings on campus (Art and Music expansion, and Learning Resources buildings), some items may not appear in Unit Plans.

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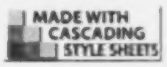

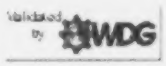

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Cuesta College

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